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November 19, 2003

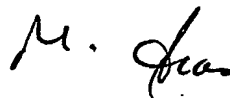
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APPLICATION NUMBER: 60/411,368

FILING DATE: September 18, 2002

RELATED PCT APPLICATION NUMBER: PCT/US03/29648

By Authority of the
COMMISSIONER OF PATENTS AND TRADEMARKS




M. SIAS
Certifying Officer



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60411368 . 091802

Revised PTO/SB/16 (8-00)
Approved for use through 10/31/2002 OMB 0651-0032
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Attorney Docket No 36871-181827

PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53 (c).

INVENTOR(S)					
Given Name (first and middle [if any])		Family Name or Surname		Residence (City and either State or Foreign Country)	
Ron		Halliburton		Delray Beach, Florida	
<input type="checkbox"/> Additional inventors are being named on the _____ separately numbered sheets attached hereto					
TITLE OF THE INVENTION (280 characters max)					
IMPROVEMENT FOR CRANE GAME					
CORRESPONDENCE ADDRESS					
Direct all correspondence to					
<input checked="" type="checkbox"/> Customer Number			26694		
OR			Type Customer Number here		
<input checked="" type="checkbox"/> Firm or Individual Name			VENABLE		
Address			P O Box 34385		
Address			1201 NEW YORK AVENUE, NW, #1000		
City			Washington		State
Country			U.S.A		DC
			Telephone		202 962 4800
			ZIP		20043-9998
			Fax		202.962.8300
ENCLOSED APPLICATION PARTS (check all that apply)					
<input checked="" type="checkbox"/> Specification Number of Pages		20		<input type="checkbox"/> CD(s), Number	
<input type="checkbox"/> Drawing(s) Number of Sheets				<input type="checkbox"/> Other (specify)	
<input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76					
METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT (check one)					
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.					
<input type="checkbox"/> A check or money order is enclosed to cover the filing fees					
<input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number:					
<input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.					
FILING FEE AMOUNT (\$)					
22-0261					
80.00					
The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.					
<input checked="" type="checkbox"/> No.					
<input type="checkbox"/> Yes, the name of the U.S. Government agency and the Government contract number are: _____					

Respectfully submitted,
SIGNATURE

Date 09/18/02

TYPED or PRINTED NAME Andrew C Aitken

REGISTRATION NO. 36,729
(if appropriate)

TELEPHONE 202-962-4800-

Docket Number: 36871-181827

USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

This collection of information is required by 37 CFR 1.51 and is used by the public to file (and by the PTO to process) a provisional application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. SEND TO Box Provisional Application, Assistant Commissioner for Patents, Washington, DC 20231

VENABLE
ATTORNEYS AT LAW

60411368-001802

PTO/SB/17 (10-01)

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U.S. Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

A/PR

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FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision

Complete If Known

Application Number	To Be Assigned
Filing Date	July 23, 2002
First Named Inventor	Ron Halliburton
Examiner Name	
Group / Art Unit	
Attorney Docket No	36871-181827

TOTAL AMOUNT OF PAYMENT (\$ 80

METHOD OF PAYMENT (check one)

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any over payments to.
- Deposit Account Number: 22-1281
- Deposit Account Name: VENABLE
- ☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17
- ☒ Applicant claims small entity status See 37 CFR 1.27

2. ☒ Payment Enclosed.

☐ Check ☐ Credit card ☐ Money Order ☐ Other

FEE CALCULATION

1. BASIC FILING FEE

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	80

SUBTOTAL (1)

(\$ 80

2. EXTRA CLAIM FEES

Total Claims: - ** = 0 X = 0

Independent Claims: - ** = 0 X = 0

Multiple Dependent: X = 0

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim, if not paid
109	84	209	42	** Reissue independent claims over original patent
110	18	210	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2)

(\$ 0

**or number previously paid, if greater. For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,280	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17 (a)	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$ 0

SUBMITTED BY

Name (Print/Type)	Andrew C. Aiken	Registration No.	36,729	Telephone	202-862-4800
Signature	<i>Andrew C. Aiken</i>	Attorney/Agent	5:10	Date	September 18, 2002

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PC Docs No. 389697

09/18/02
1059 U.S. PTO

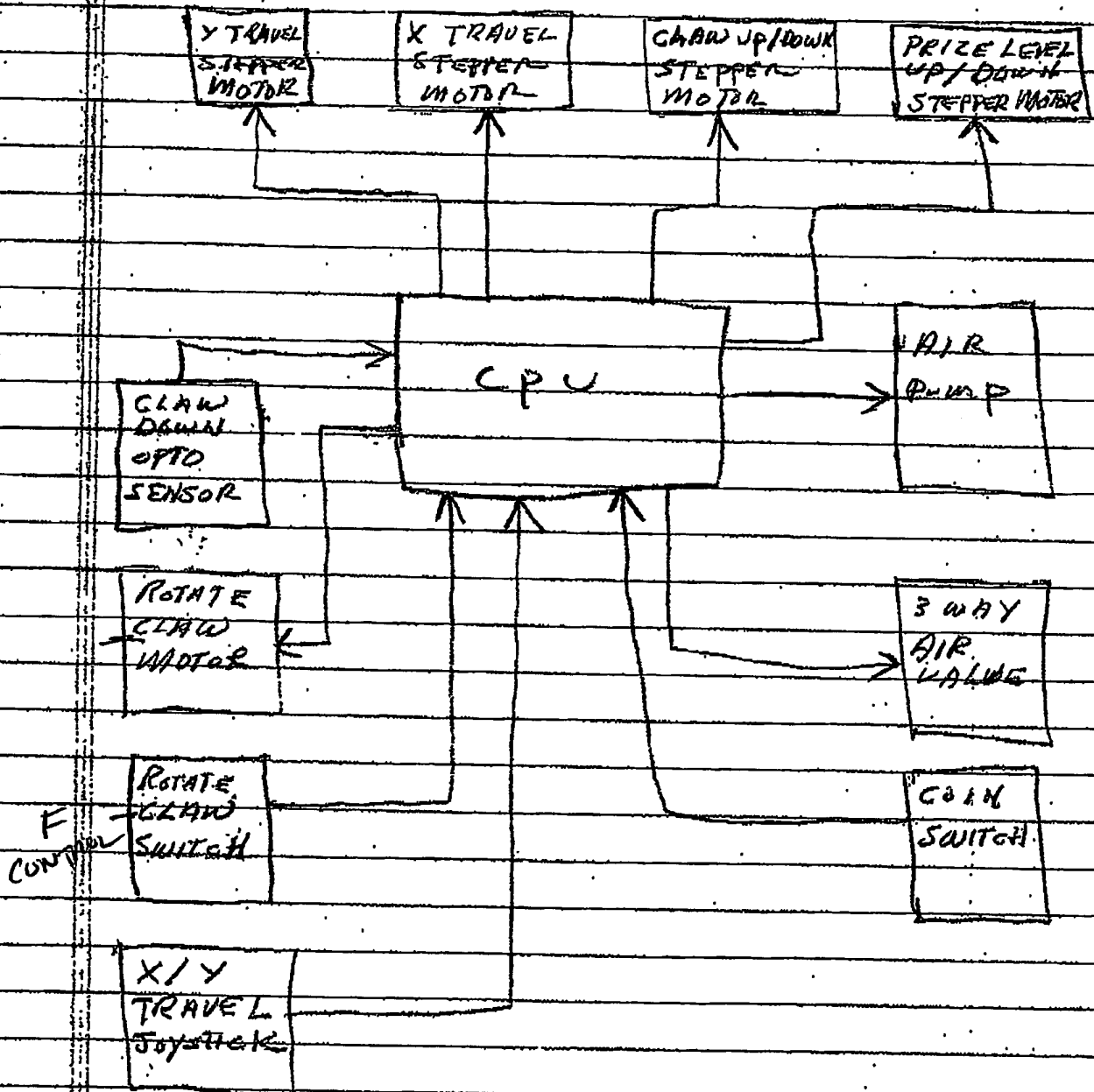
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STANDARD CRANE VERSUS NEW FEATURES

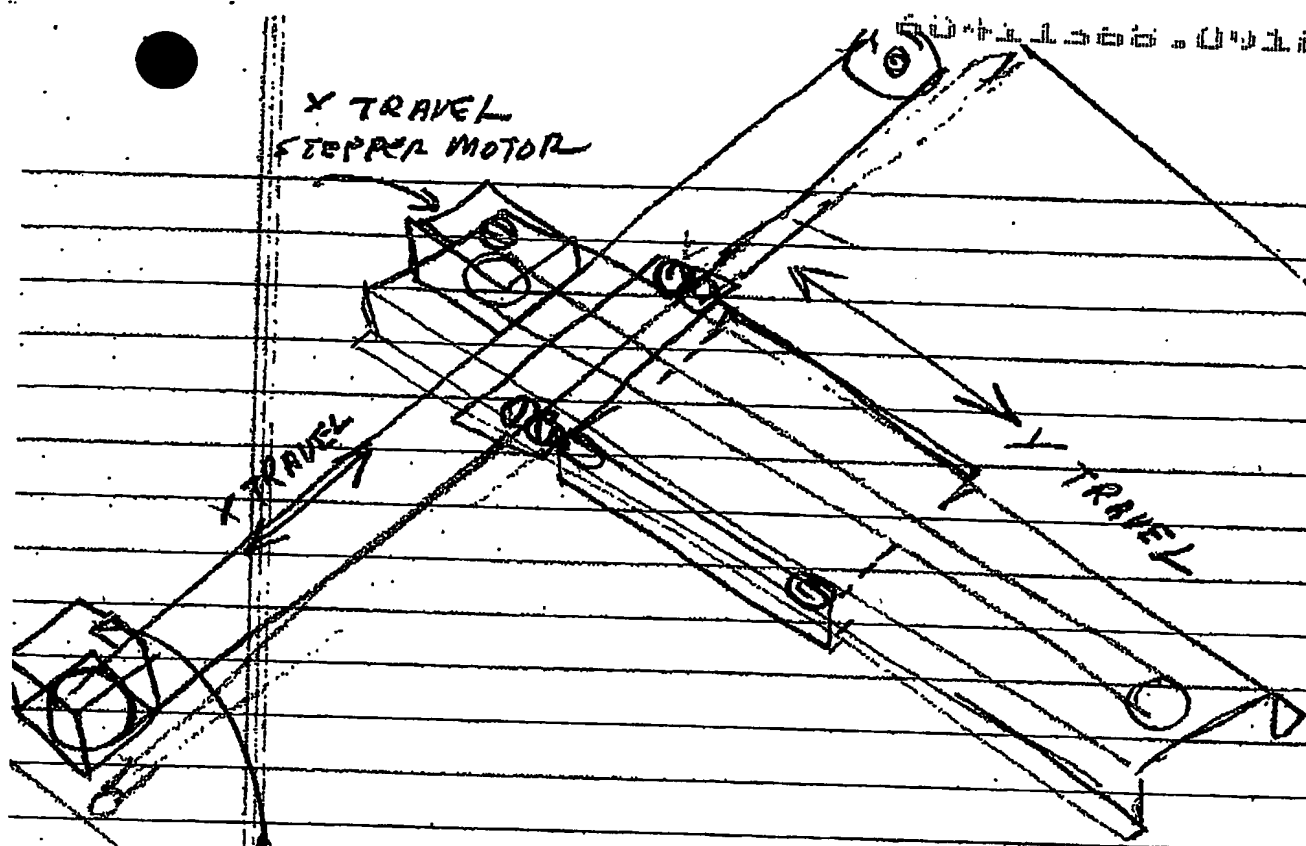
- (1) AIR CYLINDER REPLACES HIGH CURRENT SOLENOID THAT DON'T HAVE LINEAR POWER CURVE.
- (2) AIR CYLINDER WILL NOT HEAT UP LIKE A SOLENOID DOES THAT CHANGES THE POWER CURVE DEPENDING ON TEMP.
- (3) CLAW UP/DOWN STEPPER MOTOR CAN DETECT LEVEL OF PRIZES TO INSTRUCT WHEN TO RAISE LEVEL OF PRIZES TO KEEP GAME AT A FULL LEVEL TO INVITE MORE PLAY.
4. WITH AIR DRIVEN CLAW THERE IS NO SOLENOID POWER WIRE CONNECTED TO SIDE OF CLAW BY HAVING A SINGLE AIR LINE CONNECTED TO CENTER OF CLAW ASSY. WE ROTATE CLAW UP TO 60 DEGREES GIVING PLAYER MORE INTERACTION.
- (5) UNTIL NOW A CRANES HAS X/Y/Z/TRAVEL WE NOW HAVE X/Y/Z AND ROTATE.
- (6) A AIR CYLINDER HAS EVEN TORQUE THROUGHOUT FULL TRAVEL.

STEPPER MOTORS VERSUS DC MOTORS

- (1.) WITH DC MOTORS TRAVELING $X/Y/Z$ TRAVE. THEY NEED A END OF TRAVEL SWITCH AT EACH END. 6 SWITCHES IN TOTAL WITH STEPPER MOTORS NO SWITCHES ARE NEEDED.
- (2.) IF THERE IS A MECHANICAL PROBLEM THAT LIMITS TRAVEL A DC MOTOR WILL BURN OUT IN A STALL POSITION. IF A STEPPER MOTOR IS STALLED IT WILL JUST SLIP.



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STEPPER MOTOR X
TRAVEL

X TRACK

Y TRACK

PITZ
AREA

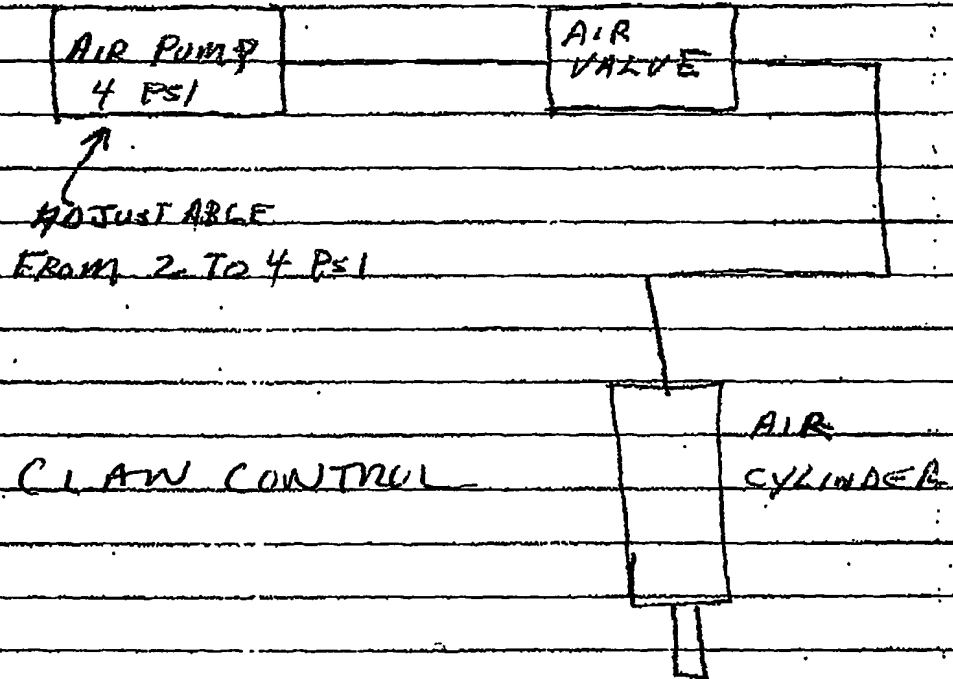
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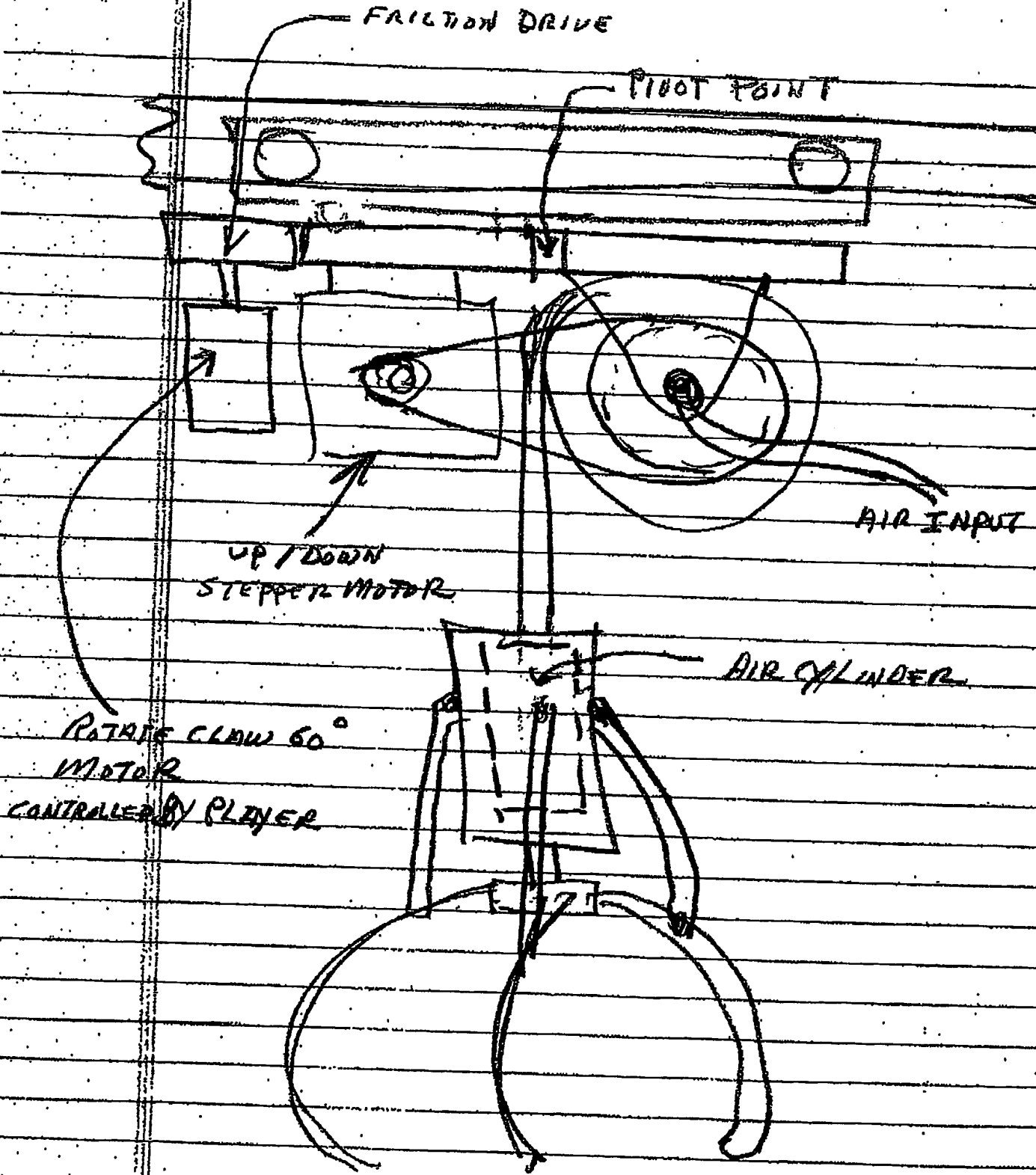
X Y F

CONTROLS

F CONTROL ALLOWS CRANE CLAW TO
ROTATE. -

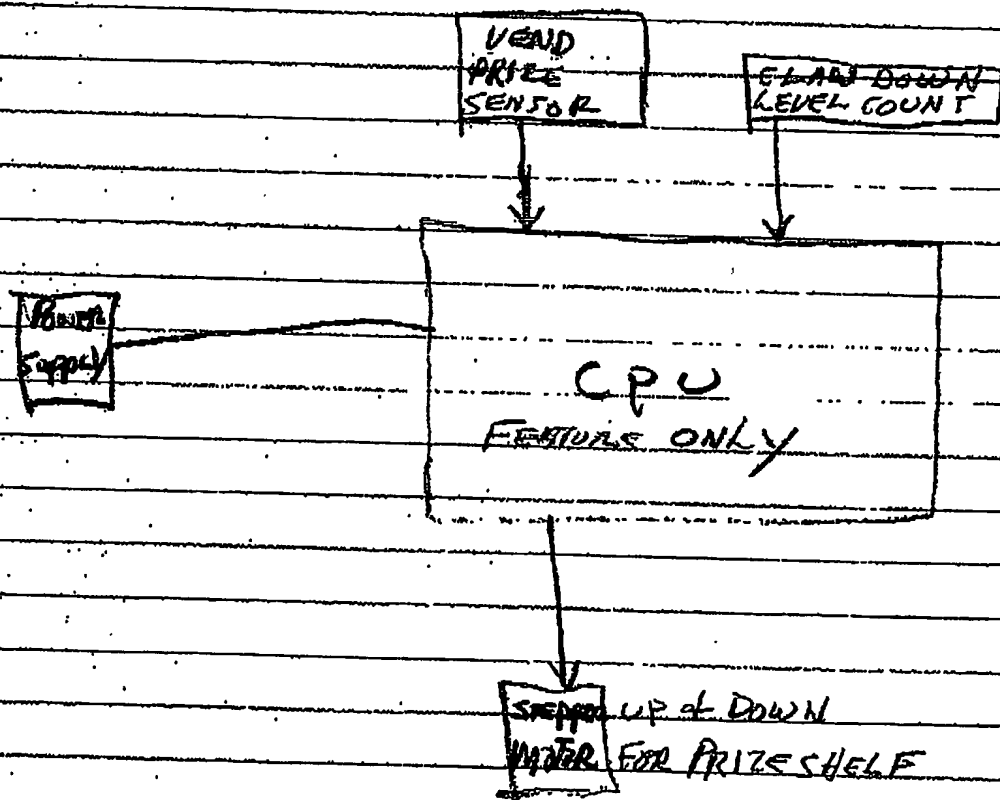
(4) 4 20





CRANE FEATURE TO KEEP PRIZE LEVEL FULL AND RELOADS 50% LESS.

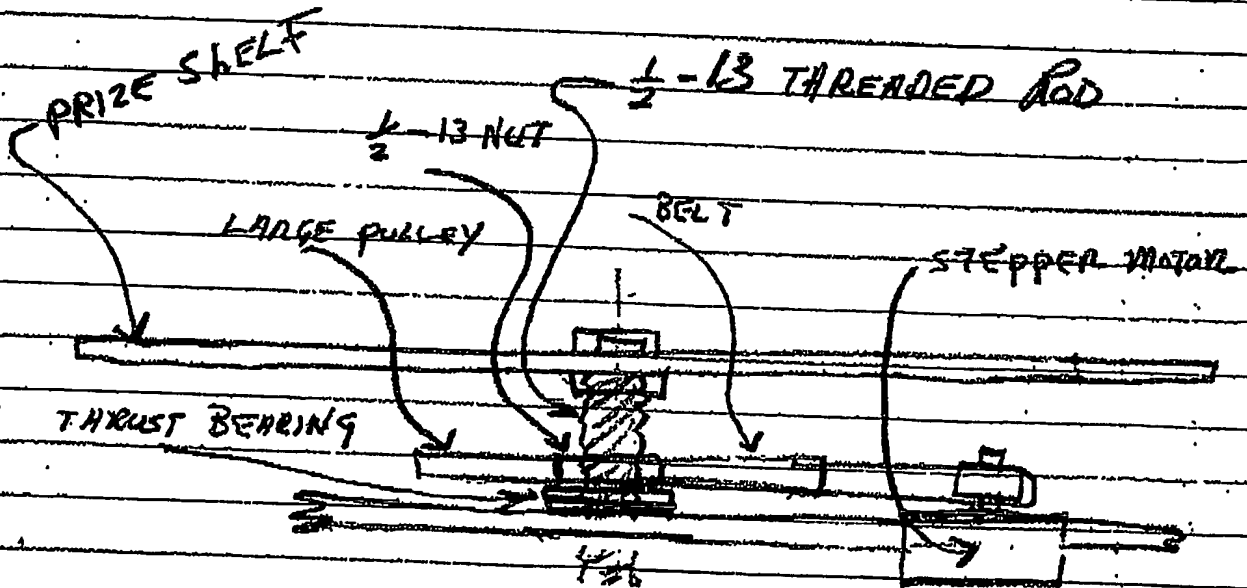
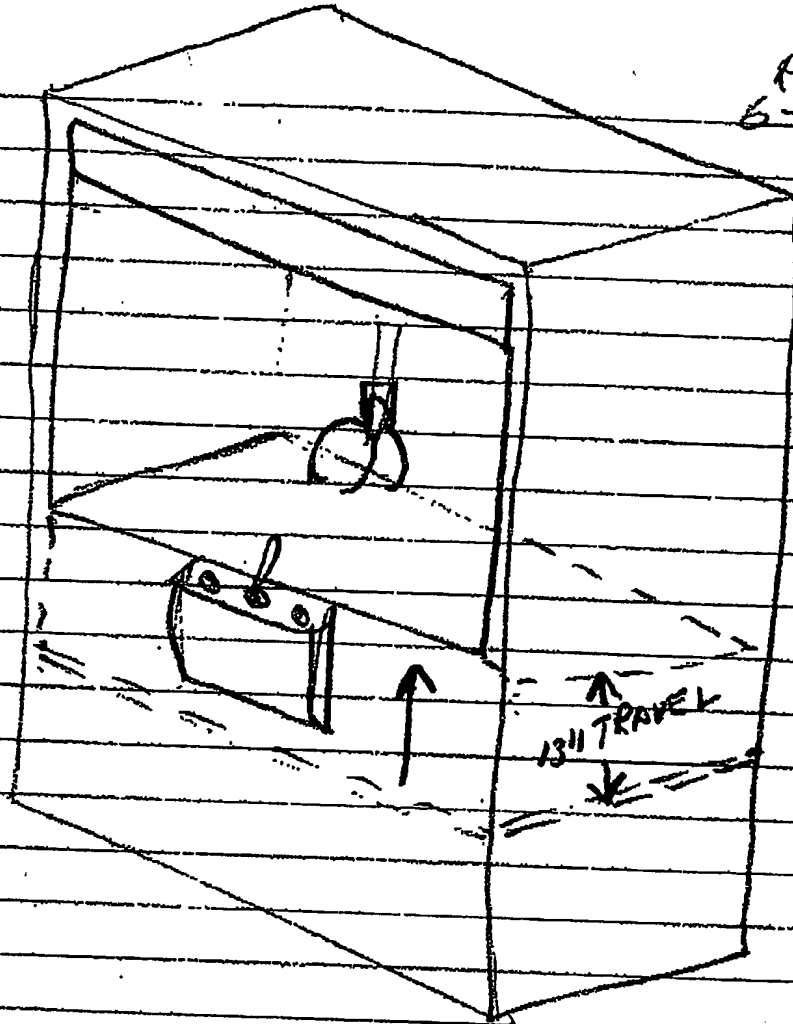
- (1) THE STEPPER MOTOR WILL RAISE THE PRIZE SHELF WHEN PRIZE VEND COUNT TABLE IS REACHED OR HOW FAR THE CLAW CAN BE LOWERED. THE RATE OF CLIMB FOR PRIZE SHELF IS VERY SLOW ABOUT 1" PER HOUR. MAXIMUM SPEED. RESET SPEED WILL BE NORMAL.



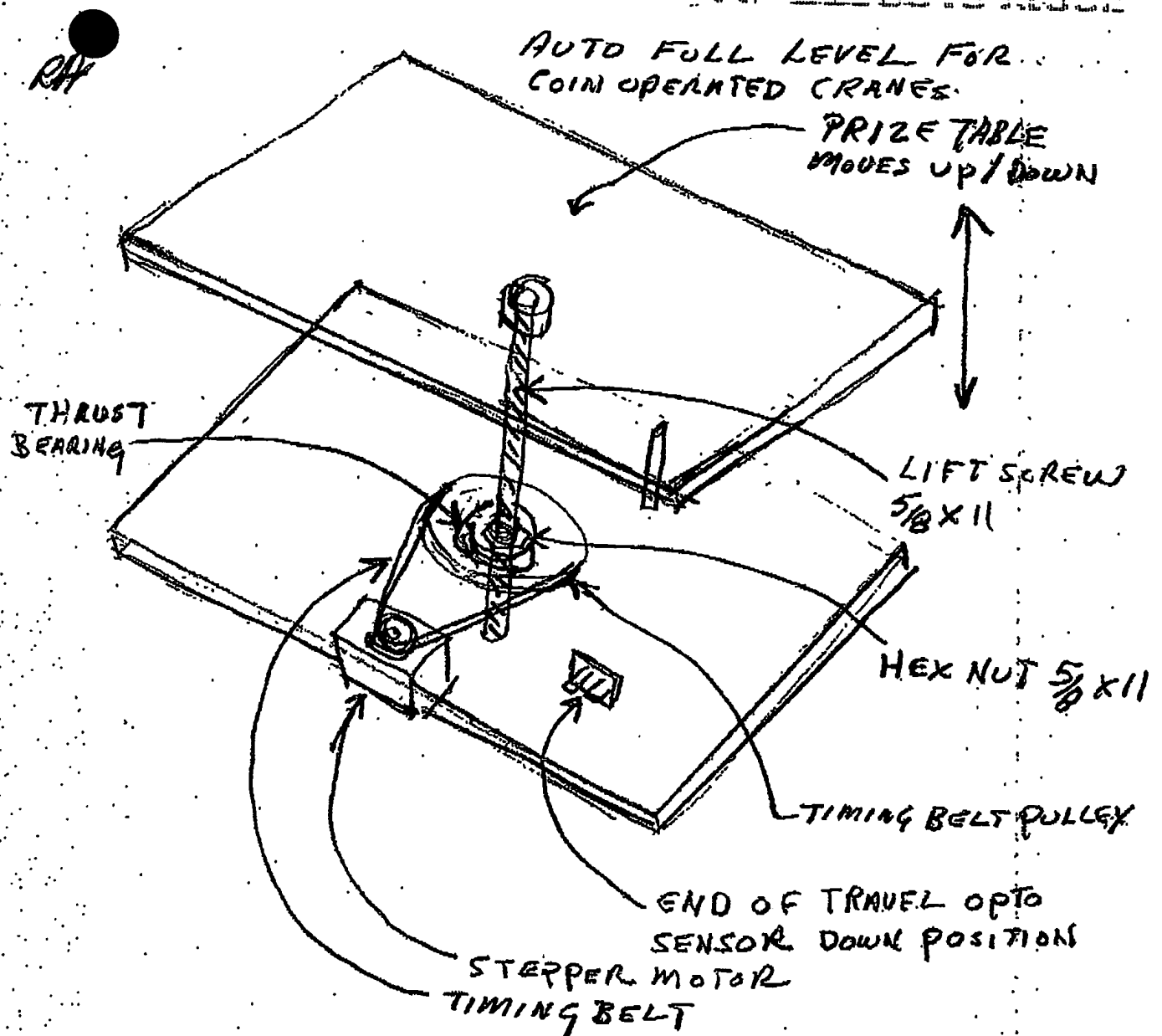
ROD HALLIBURTON
6-10-02

(7) 420

RON HALLIBURTON
6-10-02



(8) of 20

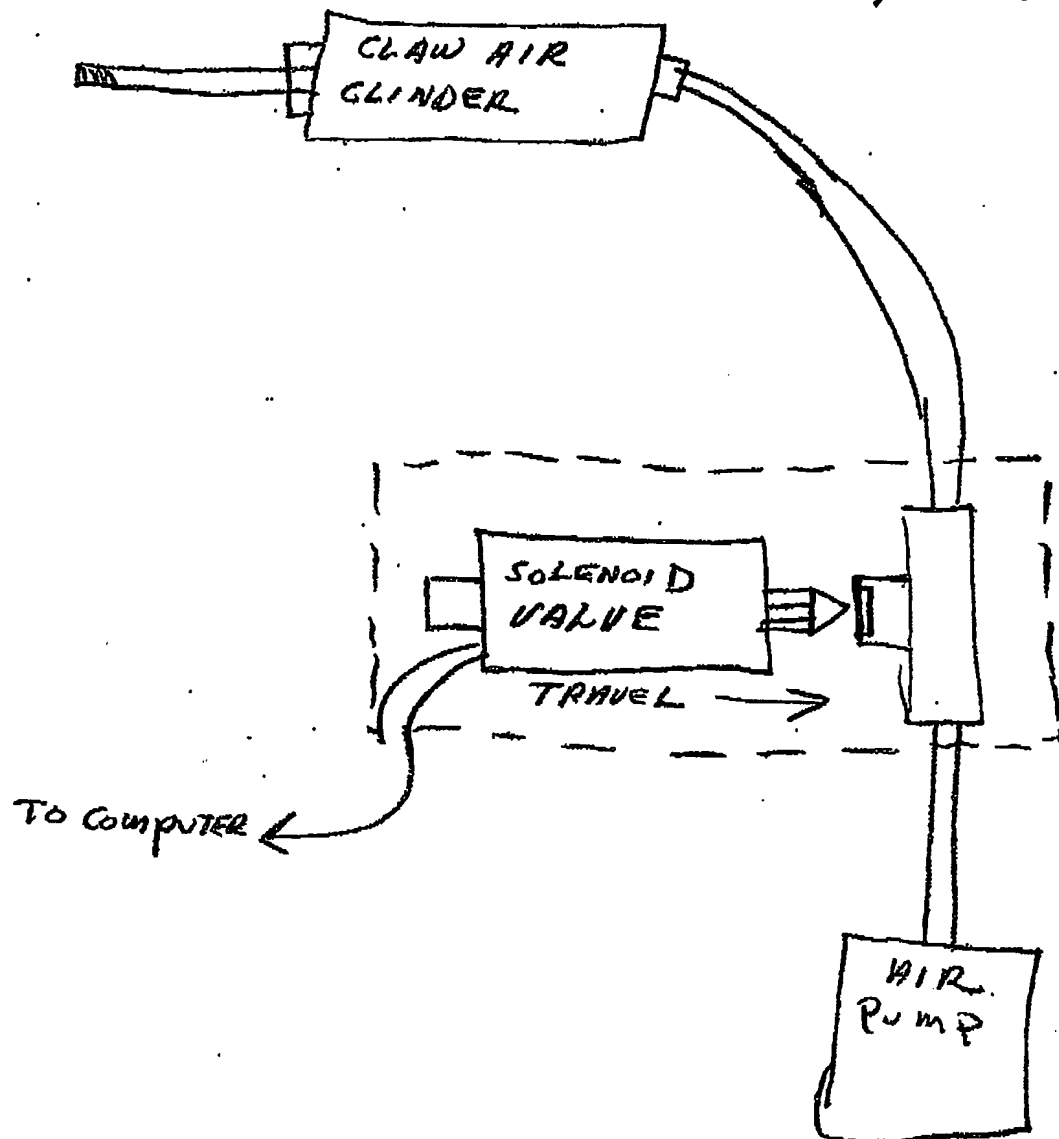


WHEN CRANE IS LOADED THE PRIZE TABLE IS RESET TO DOWN POSITION. AS GAMES ARE PLAYED THE TRAVEL OF THE CLAW IS LOGGED WITH EACH PLAY WHERE A AVG. PRIZE LEVEL CAN BE DETERMINED. THIS ALLOWS FOR A INTELLIGENT WAY OF KEEPING PRIZE LEVEL NEAR FULL FOR MAXIMUM PLAY APPEAR. ALSO DOUBLE AMOUNT OF PRODUCT CAN BE LOADED EACH TIME LIMITING THE AMOUNT OF SERVICE CALLS.

9-12-02

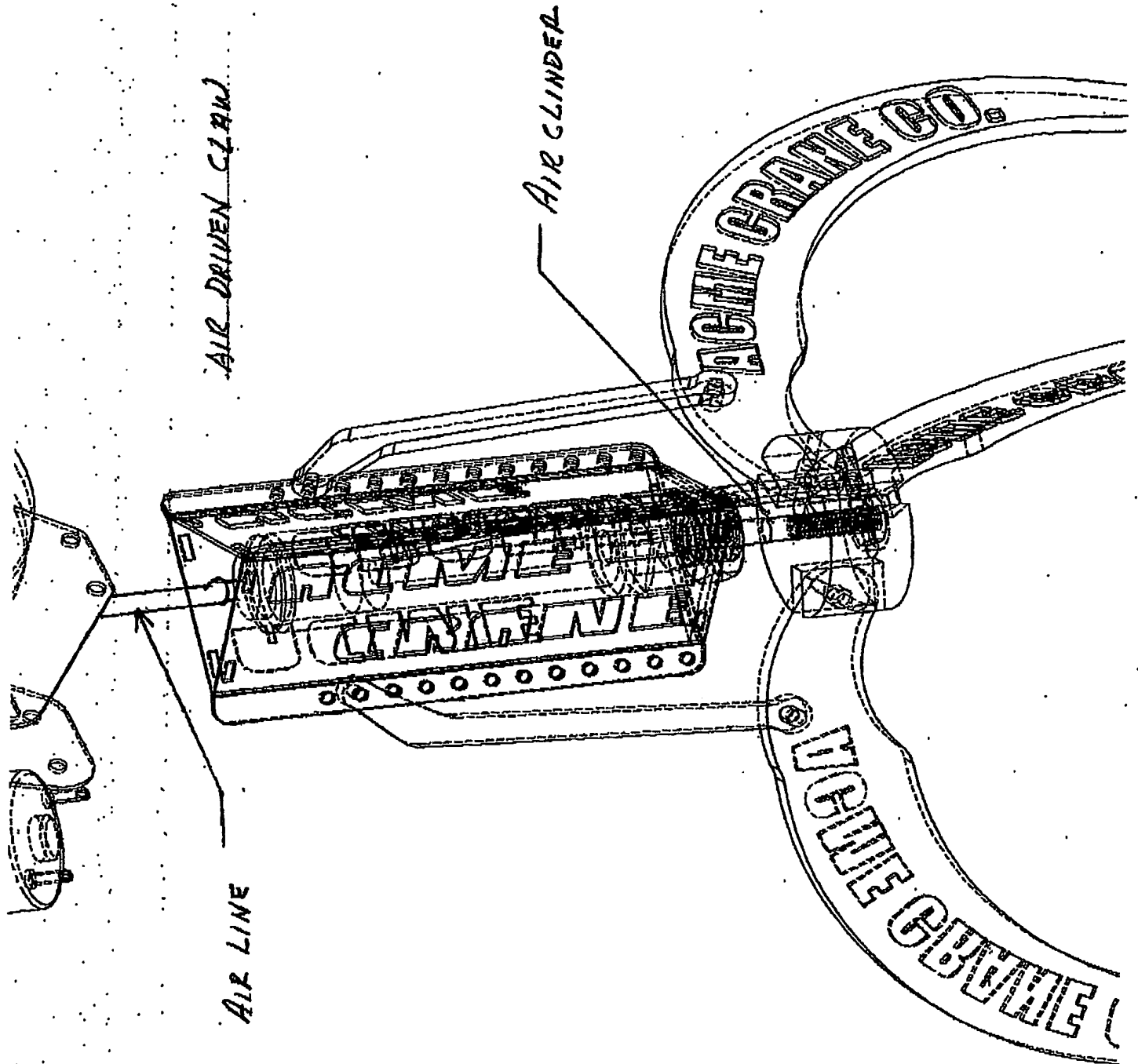
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CRANE CLAW USING AIR CYLINDER



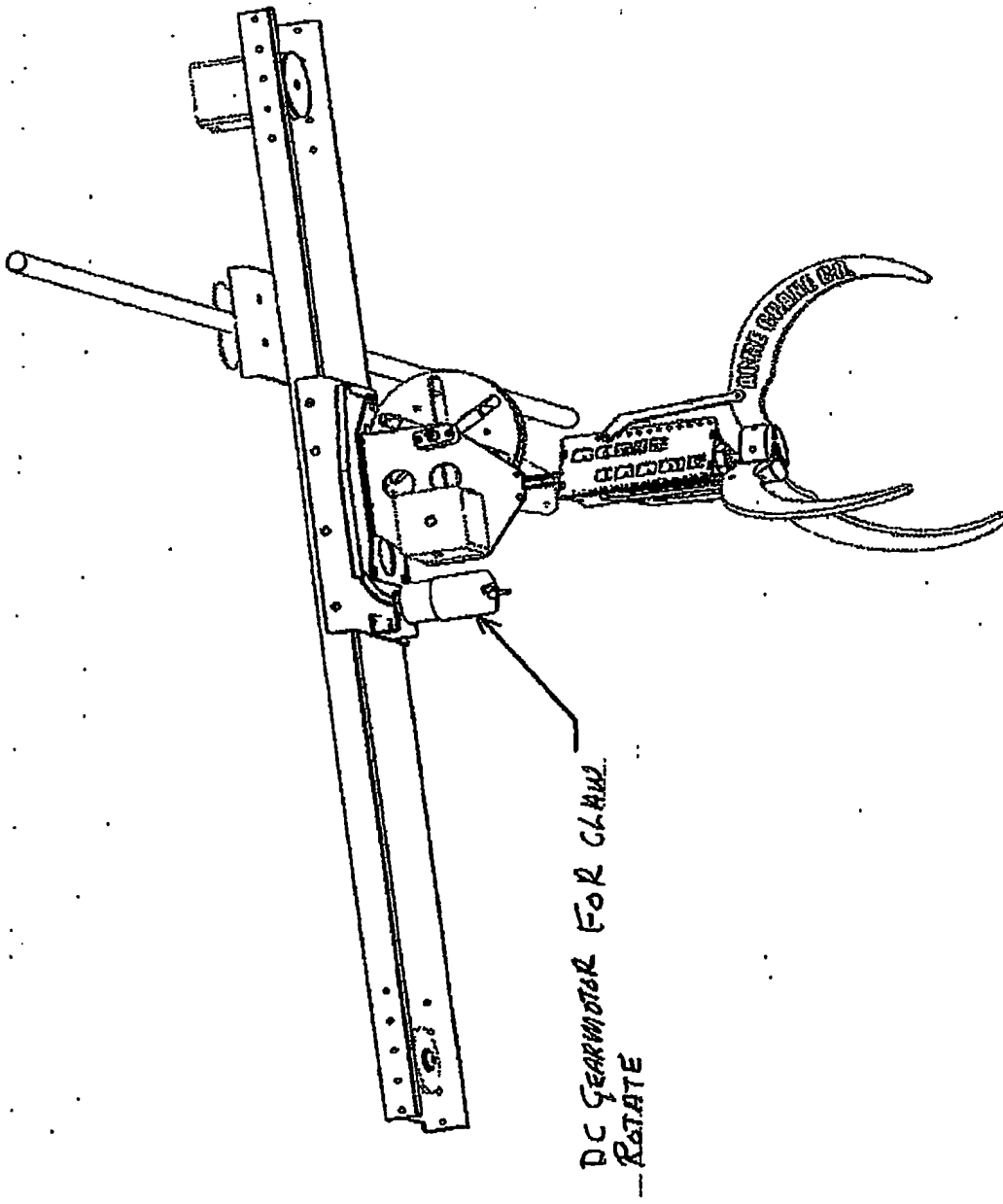
WHEN SOLENOID IS ENERGIZED AIR PRESSURE BUILDS TO ACTIVATE AIR CYLINDER WHEN SOLENOID IS RELEASED AIR PRESSURE IS RELEASED ALLOWING AIR CYLINDER TO RETURN.

026 (11)

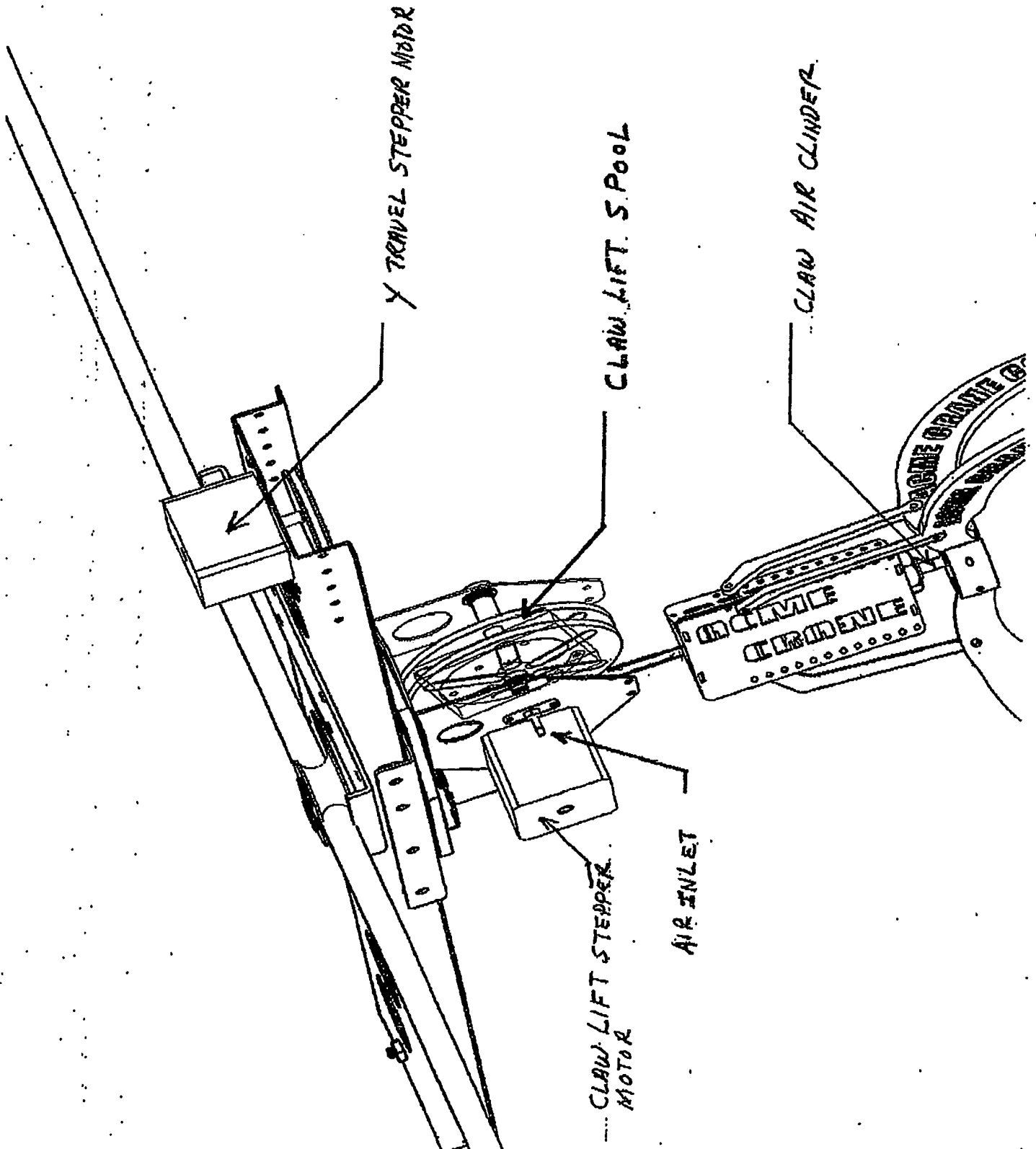


026 (21)

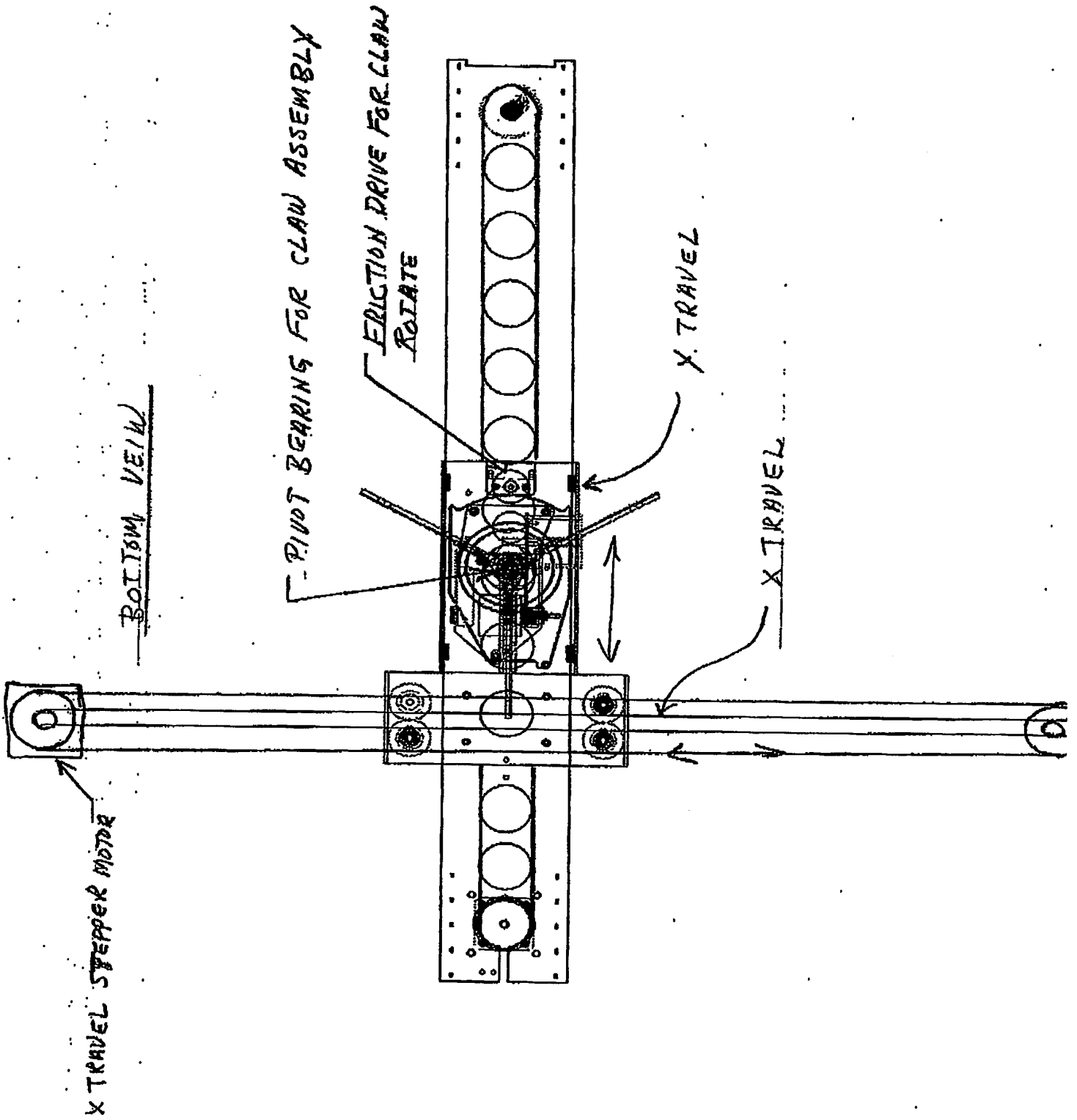
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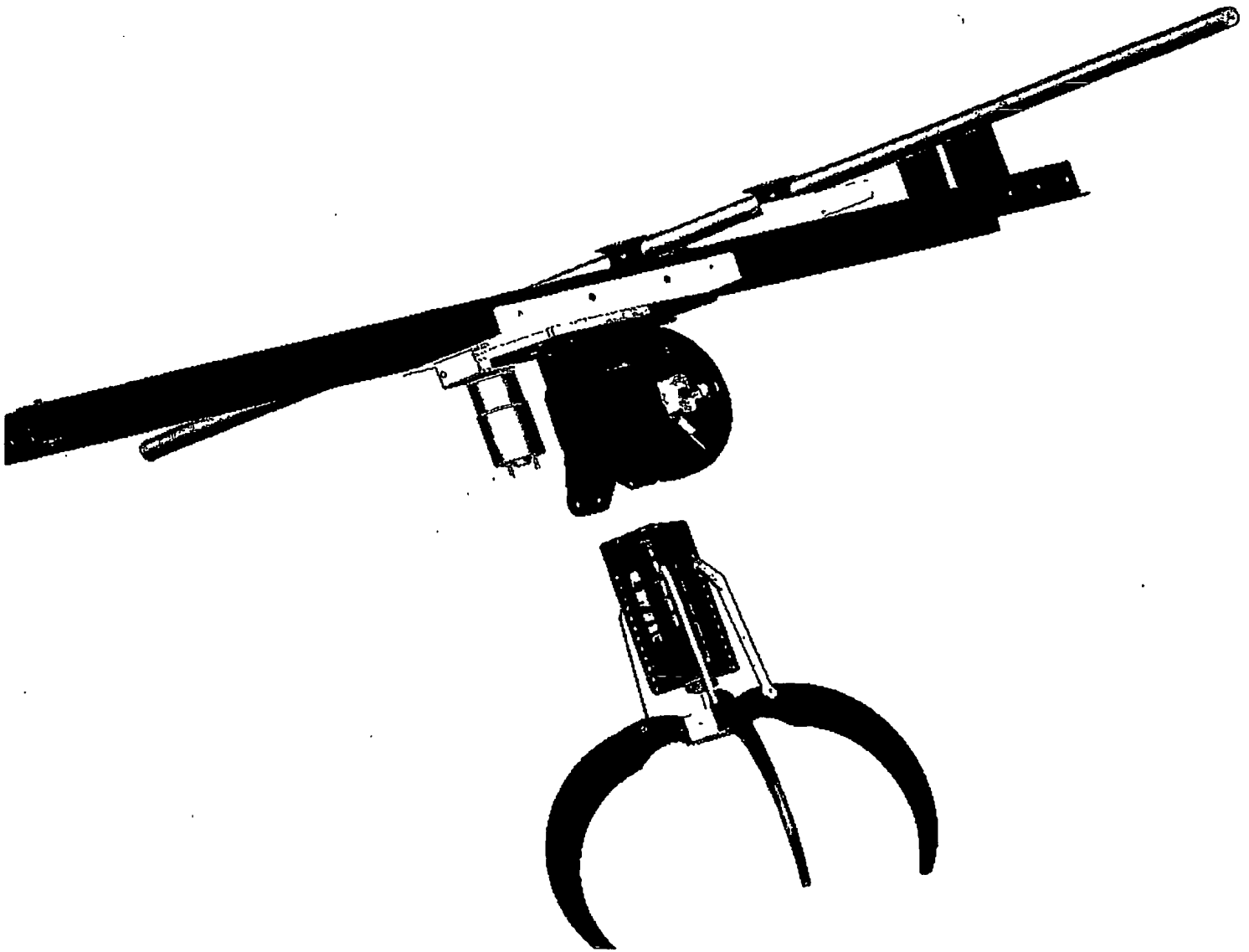


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p 20



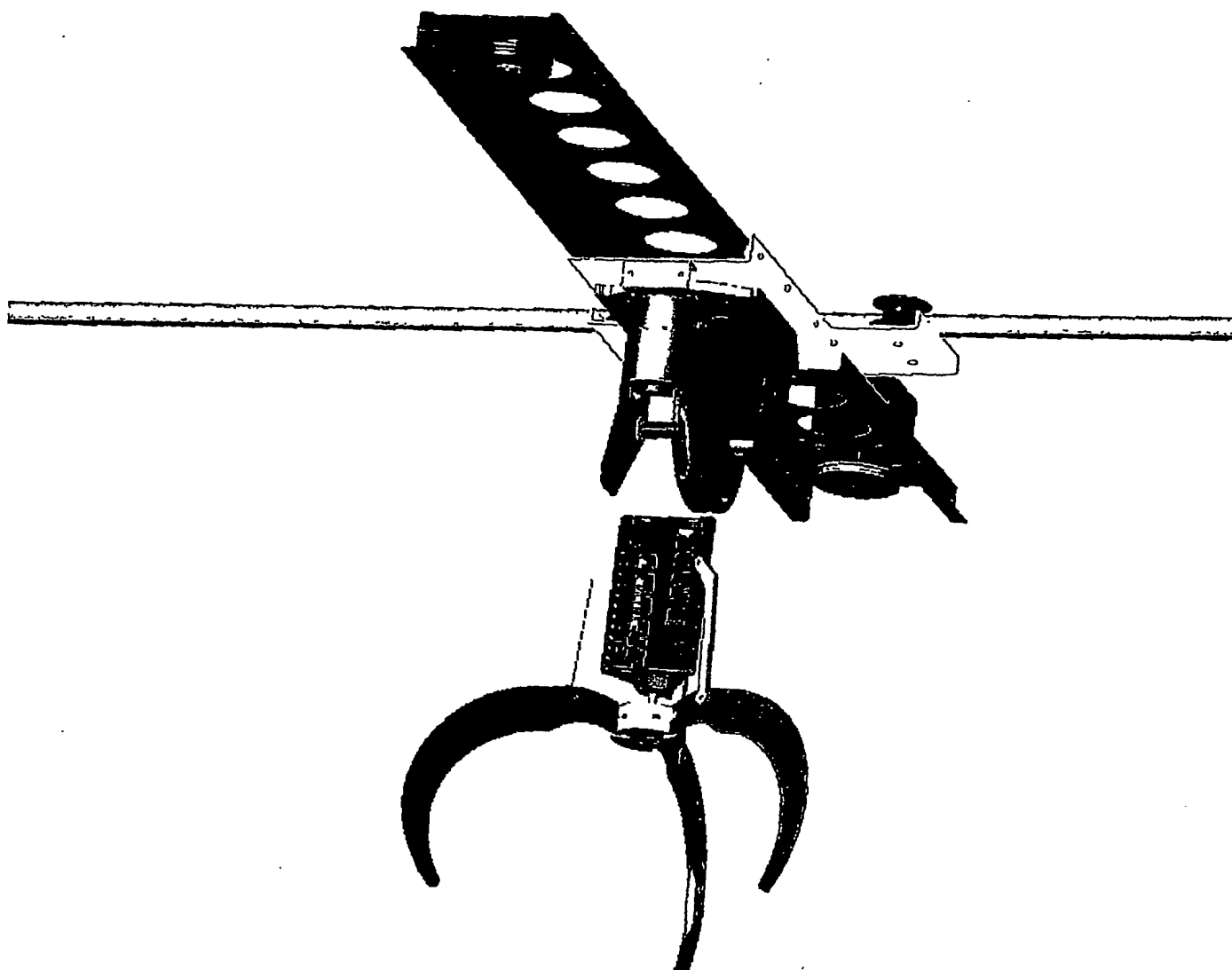
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p 20





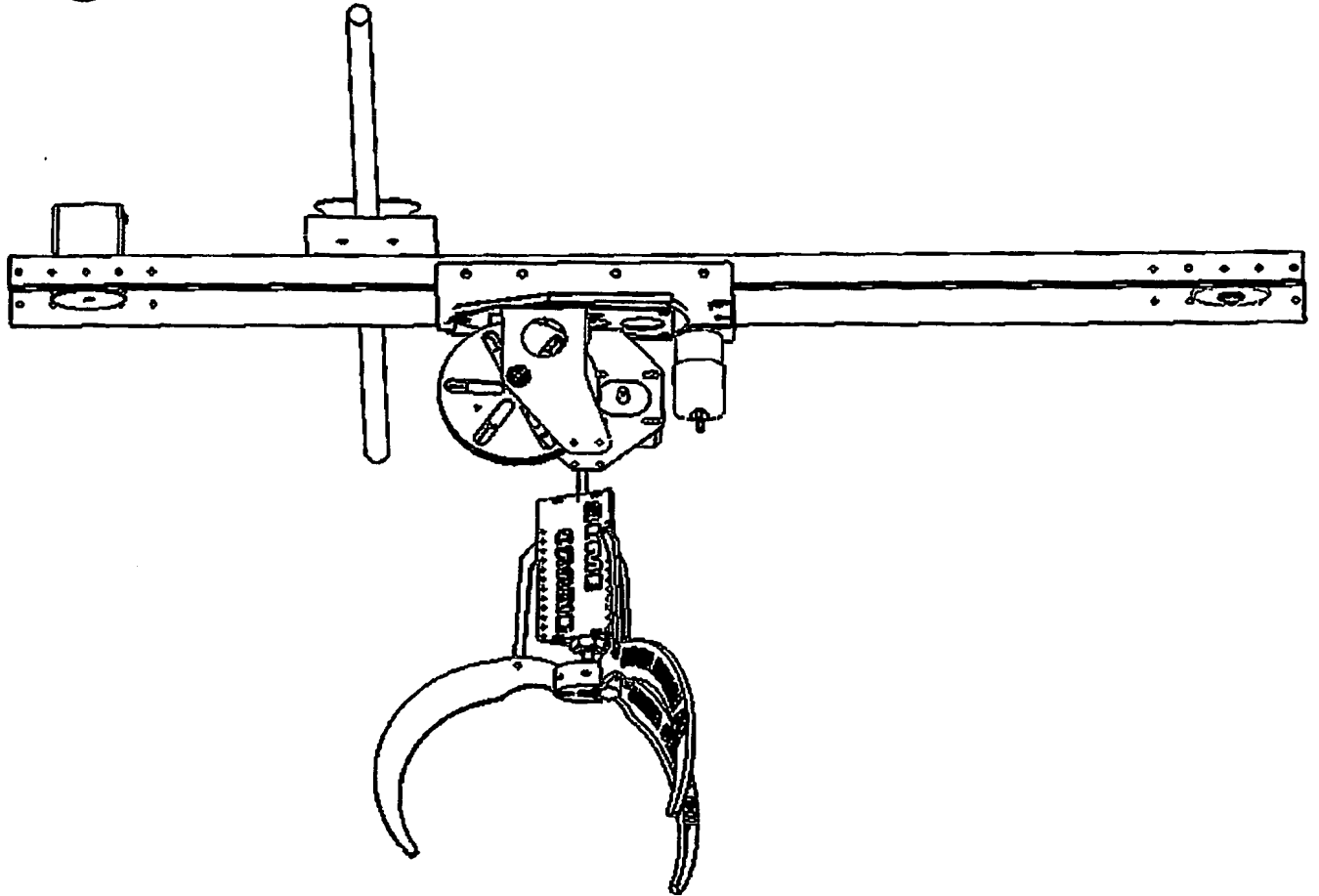
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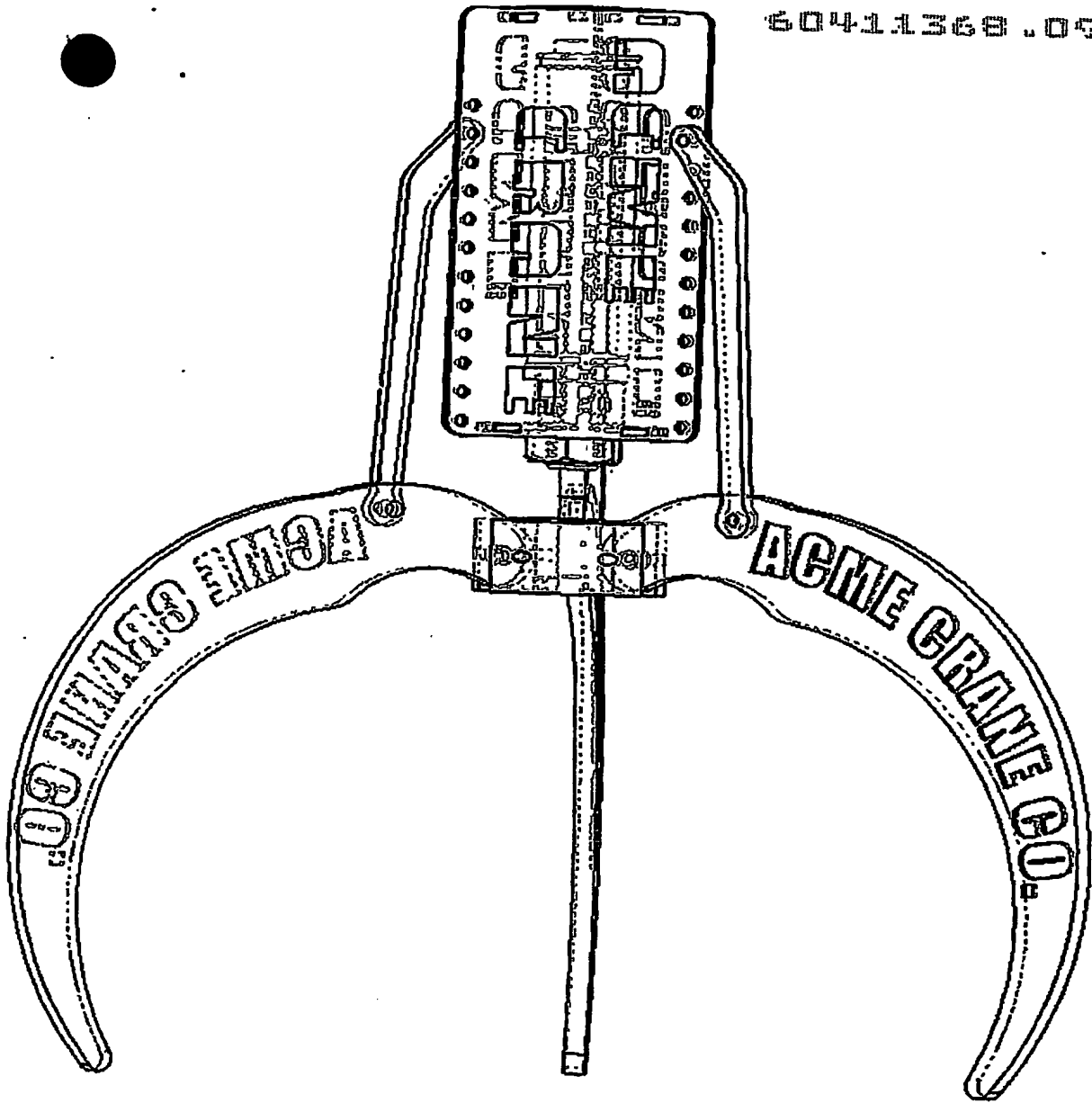
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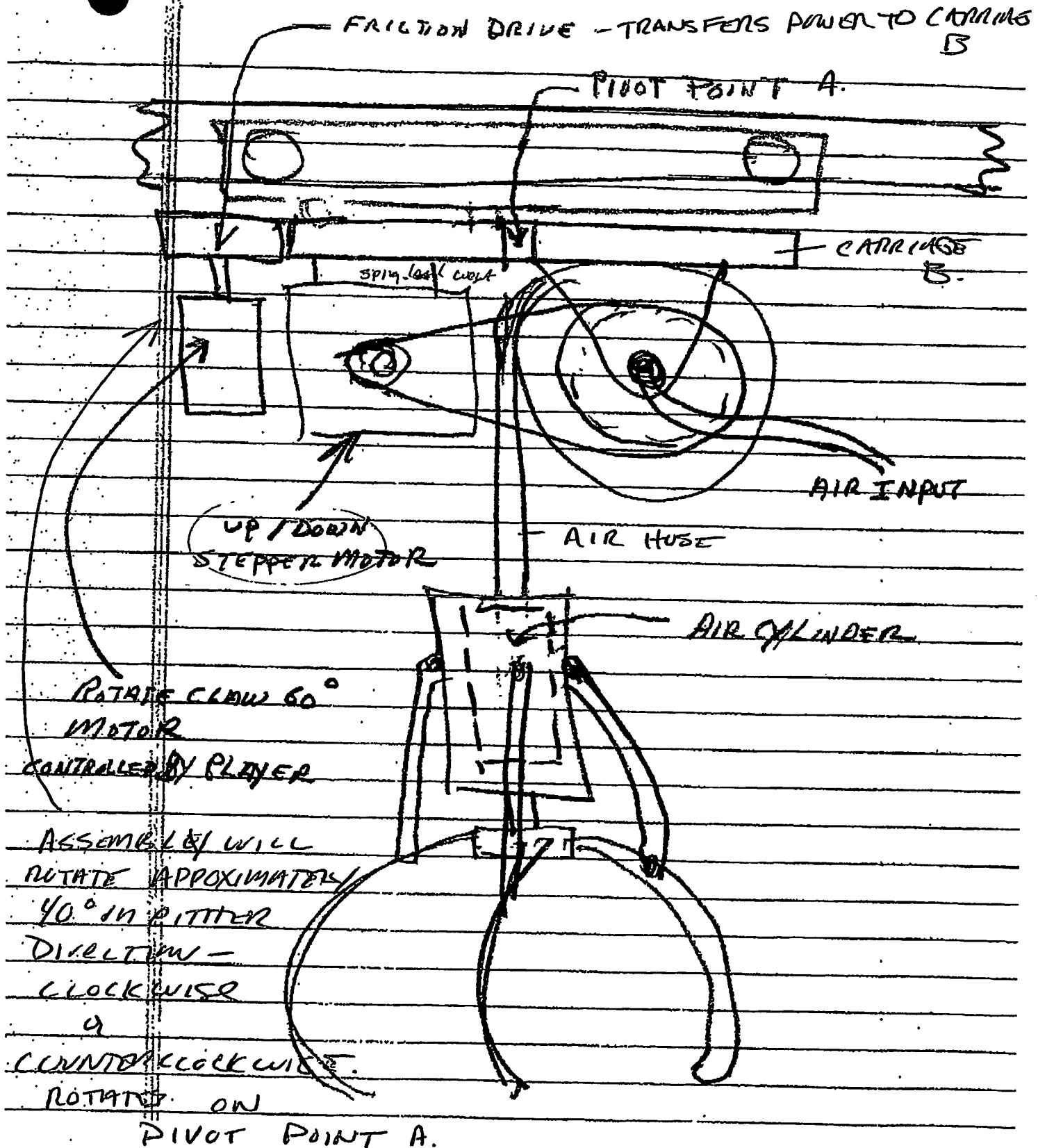


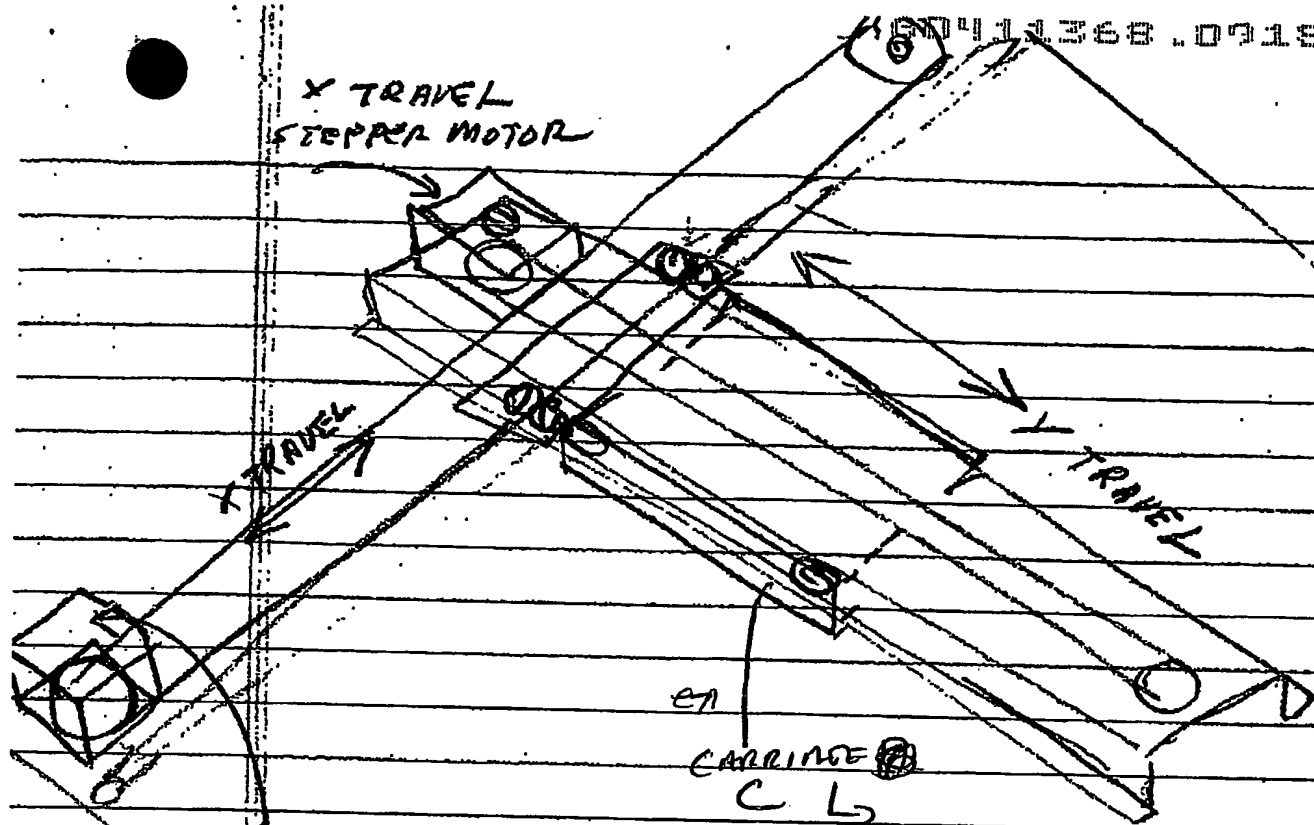
(17) 20

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(18) 120





STEPPER MOTOR X
TRAVEL

CARRIAGE B IS
ATTRIBUTED TO CARRIAGE
C

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